






Punch Ø29,7 L160mm

A27-010

The tools usually ground from a solid cylindrical part with conventional wheels. It allows to change the spline geometry fast and economically by simply changing the wheel-DXF and redress the new geometry on the same wheel, and for small splines the wheel can be kept sharp as being redressed when needed. Pregrinding could eventually be done with a CBN wheel, to increase grinding efficiency.



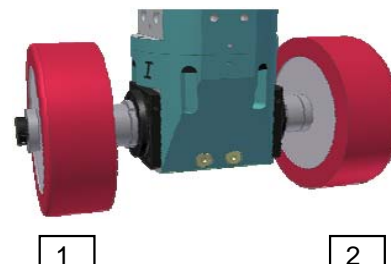
1. Cycletime for Production

Workpiece: Ø29.7 Length 160mm Material HSS					
Operations					
Feed [mm/Min]	2000	150	1000	150	35
Power [kW]		2	1	1	1
Cutting speed [m/s]		32	24	32	24
Used wheels			2		1
Grinding time [s]	20	120	720	120	180
Total cycle time	19 Min 20				

The cycle times are indicative. Material to be ground, grinding wheels, coolants can influence the cycle times considerably.

2. Used Grinding Wheels

1	Ø200 1a1 B151
2	Ø200 DXF Conventional



3. Machine and Software Requirements

Machines:	5 axes CNC grinders : GEMINI dmr linear	Coolant:	Synthetic Oil, pressure 6-7 bar
Control:	Fanuc 31i	Software:	Quinto 5
Accessories:	Dressing unit		
Responsible engineer:	DI, 01.04.20099		

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